

Applicant: David K. Mescher
Application No.: 10/068,718

With respect to the 35 U.S.C. § 102 rejections as being anticipated by U.S. Patent No. 5,652,764 (Kanzaki et al.) and U.S. Patent No. 5,886,987 (Yoshida et al.). Applicant respectfully traverses the rejection based on the following. Kanzaki discloses a CDMA communication system where a unique pilot signal is sent from each transmitting antenna. A data signal for a particular user is transmitted either using one of the transmitting antennas or that signal is weighted and transmitted over multiple ones of the antennas. Yoshida discloses transmitting a data signal over two different transmitting antennas using different spreading codes.

In the present invention, a reference signal having a different code is transmitted from each antenna and, additionally, a data signal is transmitted over each antenna using a different code. Neither Kanzaki nor Yoshida discloses the combination of transmitting a reference signal having a different code over each antenna and a data signal having a different code over each antenna. Kanzaki transmits the data spread by the same code over one or multiple antennas. Yoshida does not disclose transmitting a reference signal at all. See 104-104-N

The approach of the present invention provides advantages over both references. By transmitting the reference signals over each antenna, a mobile station can estimate the channel response between each antenna and itself. By using a separate code for the data signal transmitted over each antenna, the channel response for its antenna can be applied to each data signal separated,

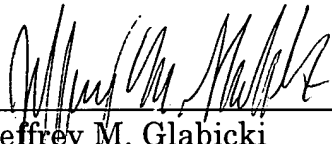
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providing a better estimate on each received data signal transmitted from each antenna. This facilitates a better received signal quality at the mobile station. The base station of the present invention facilitates the superior signal transfer.

For the above reasons, Applicant respectfully submits that all of the claims are allowable. If the Examiner does not believe that the claims are in condition for allowance, the Examiner is respectfully requested to contact the undersigned. Reconsideration and entry of this amendment is respectfully requested.

Respectfully submitted,

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